

WEST Search History for Application 10570138

Creation Date: 2008052311:20

| Query | DB | Op. | Plur. | Thes. | Date |
|---|------------------|-----|-------|-------|------------|
| (y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| ((((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$ | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium)) or ((y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium)) or (y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$) or ((zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese)) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese)) or ((eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate))) or ((eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

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| barium) with (mg or magnesium) with \$al10o17))) or (zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$)) and (powder or particle or particulate) | | | | | |
| ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate)) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxy silicate) or (\$20yl oxy silicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate)) and (gaseous or gasifi\$ or vapor) and alkoxide | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate)) and (gaseous or gasifi\$ or vapor) and alkoxide | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

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|--|------------------|-----|-----|--|------------|
| <p>or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate)) not ((((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) or (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide))</p> | | | | | |
| <p>(((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or</p> | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or
 y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$so3 or gd\$eu\$so3 or
 y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$ or y\$so3\$eu\$
 or gd\$so3\$eu\$ or y\$so3\$tm\$ or y\$so3\$tb\$ or (zn\$zio4 or ((zn!
 or zinc) with silicate) or \$al12o19 or aluminate) with (mn or
 manganese) or (((zn! or zinc) with ortho\$1silicate) or
 \$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with \$al10o17)) or zn\$mn\$zio4 or zn\$zio4\$mn\$
 or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or
 ba\$al10o17\$eu\$) and (powder or particle or particulate) not
 (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide)
 with (eu or europium or tb or terbium or tm or thulium) or
 (y\$bo3 or gd\$bo3 or y\$so3 or gd\$so3) with (eu or europium or
 tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or
 y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$so3 or gd\$eu\$so3 or
 y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$ or y\$so3\$eu\$
 or gd\$so3\$eu\$ or y\$so3\$tm\$ or y\$so3\$tb\$ or (zn\$zio4 or ((zn!
 or zinc) with silicate) or \$al12o19 or aluminate) with (mn or
 manganese) or (((zn! or zinc) with ortho\$1silicate) or
 \$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with \$al10o17)) or zn\$mn\$zio4 or zn\$zio4\$mn\$
 or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or
 ba\$al10o17\$eu\$) and (powder or particle or particulate) and
 (gaseous or gasifi\$ or vapor) and (organo\$metallic or
 alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or
 (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or
 \$methoxide or \$ethoxide or \$propoxide or \$butoxide or
 \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or
 yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or
 europium or tb or terbium or tm or thulium) or (y\$bo3 or
 gd\$bo3 or y\$so3 or gd\$so3) with (eu or europium or tb or
 terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or
 y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$so3 or gd\$eu\$so3 or
 y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$ or y\$so3\$eu\$
 or gd\$so3\$eu\$ or y\$so3\$tm\$ or y\$so3\$tb\$ or (zn\$zio4 or ((zn!
 or zinc) with silicate) or \$al12o19 or aluminate) with (mn or
 manganese) or (((zn! or zinc) with ortho\$1silicate) or
 \$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with \$al10o17)) or zn\$mn\$zio4 or zn\$zio4\$mn\$
 or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or
 ba\$al10o17\$eu\$) and (powder or particle or particulate) and
 (gaseous or gasifi\$ or vapor) and alkoxide)) and

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| (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) | | | | | |
| (phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alxxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| ((phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alxxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) not ((((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) or (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) or (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or

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|--|------------------|-----|-----|--|------------|
| manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide))) | | | | | |
| (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

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|--|------------------|-----|-----|--|------------|
| \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide)) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) | | | | | |
| (phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| ((phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) not ((((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

$\text{Ba}(\text{Eu}(\text{AlO}_2)_3 \text{ or } \text{Ba}(\text{AlO}_2)_3\text{Eu})$) and (powder or particle or particulate) and (gaseous or gasified or vapor) and (organo-metallic or alkoxide or ketone or dione or teos or siloxysilicate or (alkyl oxysilicate) or (ethyl oxysilicate) or borate or methoxide or ethoxide or propoxide or butoxide or amyloxide or 20-amylose or pentasiloxy)) or ((y or yttrium or gad or gadolinium) with (BO_3 or oxide) with (eu or europium or terbium or thulium) or (YBO_3 or GdBO_3 or Y_2O_3 or Gd_2O_3) with (eu or europium or terbium or thulium) or $\text{Y}(\text{EuBO}_3)_3$ or $\text{Gd}(\text{EuBO}_3)_3$ or $\text{Y}(\text{BO}_3)_3\text{Eu}$ or $\text{Gd}(\text{BO}_3)_3\text{Eu}$ or $\text{Y}(\text{Eu}_2\text{O}_3)_3$ or $\text{Gd}(\text{Eu}_2\text{O}_3)_3$ or $\text{Y}(\text{TM}_2\text{O}_3)_3$ or $\text{Y}(\text{TB}_2\text{O}_3)_3$ or $\text{Y}_2\text{O}_3\text{TM}_2$ or $\text{Y}_2\text{O}_3\text{TB}_2$ or $\text{Y}_2\text{O}_3\text{Eu}$ or $\text{Gd}_2\text{O}_3\text{Eu}$ or $\text{Y}_2\text{O}_3\text{TM}_2$ or $\text{Y}_2\text{O}_3\text{TB}_2$ or (ZnSiO_4 or ((zn! or zinc) with silicate) or Al_2O_3 or aluminate) with (mn or manganese) or ((zn! or zinc) with orthosilicate) or willsite) with (mn or manganese) or (eu or europium) with (bam or $\text{BaMg}(\text{AlO}_2)_3$ or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or $\text{BaMg}(\text{AlO}_2)_3$ or ((ba or barium) with (mg or magnesium) with AlO_2)) or ZnMnSiO_4 or ZnSiO_4Mn or MnAl_2O_3 or $\text{Al}_2\text{O}_3\text{Mn}$ or $\text{Ba}(\text{Eu}(\text{AlO}_2)_3 \text{ or } \text{Ba}(\text{AlO}_2)_3\text{Eu})$) and (powder or particle or particulate) and (gaseous or gasified or vapor) and alkoxide) or ((y or yttrium or gad or gadolinium) with (BO_3 or oxide) with (eu or europium or terbium or thulium) or (YBO_3 or GdBO_3 or Y_2O_3 or Gd_2O_3) with (eu or europium or terbium or thulium) or $\text{Y}(\text{EuBO}_3)_3$ or $\text{Gd}(\text{EuBO}_3)_3$ or $\text{Y}(\text{BO}_3)_3\text{Eu}$ or $\text{Gd}(\text{BO}_3)_3\text{Eu}$ or $\text{Y}(\text{Eu}_2\text{O}_3)_3$ or $\text{Gd}(\text{Eu}_2\text{O}_3)_3$ or $\text{Y}(\text{TM}_2\text{O}_3)_3$ or $\text{Y}(\text{TB}_2\text{O}_3)_3$ or $\text{Y}_2\text{O}_3\text{TM}_2$ or $\text{Y}_2\text{O}_3\text{TB}_2$ or $\text{Y}_2\text{O}_3\text{Eu}$ or $\text{Gd}_2\text{O}_3\text{Eu}$ or $\text{Y}_2\text{O}_3\text{TM}_2$ or $\text{Y}_2\text{O}_3\text{TB}_2$ or (ZnSiO_4 or ((zn! or zinc) with silicate) or Al_2O_3 or aluminate) with (mn or manganese) or ((zn! or zinc) with orthosilicate) or willsite) with (mn or manganese) or (eu or europium) with (bam or $\text{BaMg}(\text{AlO}_2)_3$ or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or $\text{BaMg}(\text{AlO}_2)_3$ or ((ba or barium) with (mg or magnesium) with AlO_2)) or ZnMnSiO_4 or ZnSiO_4Mn or MnAl_2O_3 or $\text{Al}_2\text{O}_3\text{Mn}$ or $\text{Ba}(\text{Eu}(\text{AlO}_2)_3 \text{ or } \text{Ba}(\text{AlO}_2)_3\text{Eu})$) and (powder or particle or particulate) not ((y or yttrium or gad or gadolinium) with (BO_3 or oxide) with (eu or europium or terbium or thulium) or (YBO_3 or GdBO_3 or Y_2O_3 or Gd_2O_3) with (eu or europium or terbium or thulium) or $\text{Y}(\text{EuBO}_3)_3$ or $\text{Gd}(\text{EuBO}_3)_3$ or $\text{Y}(\text{BO}_3)_3\text{Eu}$ or $\text{Gd}(\text{BO}_3)_3\text{Eu}$ or $\text{Y}(\text{Eu}_2\text{O}_3)_3$ or $\text{Gd}(\text{Eu}_2\text{O}_3)_3$ or $\text{Y}(\text{TM}_2\text{O}_3)_3$ or $\text{Y}(\text{TB}_2\text{O}_3)_3$ or $\text{Y}_2\text{O}_3\text{TM}_2$ or $\text{Y}_2\text{O}_3\text{TB}_2$ or $\text{Y}_2\text{O}_3\text{Eu}$ or $\text{Gd}_2\text{O}_3\text{Eu}$ or $\text{Y}_2\text{O}_3\text{TM}_2$ or $\text{Y}_2\text{O}_3\text{TB}_2$ or (ZnSiO_4 or ((zn! or zinc) with silicate) or Al_2O_3 or aluminate) with (mn or manganese) or ((zn! or zinc) with orthosilicate) or willsite) with (mn or manganese) or (eu or europium) with (bam or $\text{BaMg}(\text{AlO}_2)_3$ or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam

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| <p>or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)))</p> | | | | | |
| <p>((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or</p> | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or
 y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$so3 or gd\$eu\$so3 or
 y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$ or y\$so3\$eu\$
 or gd\$so3\$eu\$ or y\$so3\$tm\$ or y\$so3\$tb\$ or (zn\$so4 or ((zn!
 or zinc) with silicate) or \$al12o19 or aluminate) with (mn or
 manganese) or (((zn! or zinc) with ortho\$1silicate) or
 \$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with \$al10o17)) or zn\$mn\$so4 or zn\$so4\$mn\$
 or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or
 ba\$al10o17\$eu\$) and (powder or particle or particulate) and
 (gaseous or gasifi\$ or vapor) and (organo\$metallic or
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 (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or
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 \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or
 yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or
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 gd\$bo3 or y\$so3 or gd\$so3) with (eu or europium or tb or
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 y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$ or y\$so3\$eu\$
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 or zinc) with silicate) or \$al12o19 or aluminate) with (mn or
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 (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
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 magnesium) with \$al10o17)) or zn\$mn\$so4 or zn\$so4\$mn\$
 or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or
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 (gaseous or gasifi\$ or vapor) and alkoxide) and
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 \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or
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 \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)
) not (((y or yttrium or gd or gadolinium) with (\$bo3 or
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 thulium) or (y\$bo3 or gd\$bo3 or y\$so3 or gd\$so3) with (eu or
 europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or
 gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$so3 or
 gd\$eu\$so3 or y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$
 or y\$so3\$eu\$ or gd\$so3\$eu\$ or y\$so3\$tm\$ or y\$so3\$tb\$ or
 (zn\$so4 or ((zn! or zinc) with silicate) or \$al12o19 or
 aluminate) with (mn or manganese) or (((zn! or zinc) with
 ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu
 or europium) with (bam or ba\$mg\$al10o17 or ((ba or
 barium) with (mg or magnesium) with aluminate)) or (eu or

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| europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) | | | | | |
| (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

$y\text{bo}_3\text{eu}$ or $gd\text{bo}_3\text{eu}$ or $y\text{eu}\text{o}_3$ or $gd\text{eu}\text{o}_3$ or
 $y\text{tm}\text{o}_3$ or $y\text{tb}\text{o}_3$ or $y\text{o}_3\text{tm}$ or $y\text{o}_3\text{tb}$ or $y\text{o}_3\text{eu}$
or $gd\text{o}_3\text{eu}$ or $y\text{o}_3\text{tm}$ or $y\text{o}_3\text{tb}$ or $(\text{zn!}$ or zinc) with silicate) or $\text{al}_{12}\text{o}_{19}$ or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho silicate) or willite) with (mn or manganese) or (eu or europium) with (bam or $\text{bamg}\text{al}_{10}\text{o}_{17}$ or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or $\text{bamg}\text{al}_{10}\text{o}_{17}$ or ((ba or barium) with (mg or magnesium) with $\text{al}_{10}\text{o}_{17}$)) or $\text{zn}\text{mn}\text{sio}_4$ or $\text{zn}\text{sio}_4\text{mn}$ or $\text{mn}\text{al}_{12}\text{o}_{19}$ or $\text{al}_{12}\text{o}_{19}\text{mn}$ or $\text{baeu}\text{al}_{10}\text{o}_{17}$ or $\text{ba}\text{al}_{10}\text{o}_{17}\text{eu}$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (bo_3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or ($y\text{bo}_3$ or $gd\text{bo}_3$ or $y\text{o}_3$ or $gd\text{o}_3$) with (eu or europium or tb or terbium or tm or thulium) or $y\text{eu}\text{bo}_3$ or $gd\text{eu}\text{bo}_3$ or $y\text{bo}_3\text{eu}$ or $gd\text{bo}_3\text{eu}$ or $y\text{eu}\text{o}_3$ or $gd\text{eu}\text{o}_3$ or $y\text{tm}\text{o}_3$ or $y\text{tb}\text{o}_3$ or $y\text{o}_3\text{tm}$ or $y\text{o}_3\text{tb}$ or $y\text{o}_3\text{eu}$ or $gd\text{o}_3\text{eu}$ or $y\text{o}_3\text{tm}$ or $y\text{o}_3\text{tb}$ or $(\text{zn!}$ or zinc) with silicate) or $\text{al}_{12}\text{o}_{19}$ or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho silicate) or willite) with (mn or manganese) or (eu or europium) with (bam or $\text{bamg}\text{al}_{10}\text{o}_{17}$ or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or $\text{bamg}\text{al}_{10}\text{o}_{17}$ or ((ba or barium) with (mg or magnesium) with $\text{al}_{10}\text{o}_{17}$)) or $\text{zn}\text{mn}\text{sio}_4$ or $\text{zn}\text{sio}_4\text{mn}$ or $\text{mn}\text{al}_{12}\text{o}_{19}$ or $\text{al}_{12}\text{o}_{19}\text{mn}$ or $\text{baeu}\text{al}_{10}\text{o}_{17}$ or $\text{ba}\text{al}_{10}\text{o}_{17}\text{eu}$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxyasilicate) or (\$20yl oxyasilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (bo_3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or ($y\text{bo}_3$ or $gd\text{bo}_3$ or $y\text{o}_3$ or $gd\text{o}_3$) with (eu or europium or tb or terbium or tm or thulium) or $y\text{eu}\text{bo}_3$ or $gd\text{eu}\text{bo}_3$ or $y\text{bo}_3\text{eu}$ or $gd\text{bo}_3\text{eu}$ or $y\text{eu}\text{o}_3$ or $gd\text{eu}\text{o}_3$ or $y\text{tm}\text{o}_3$ or $y\text{tb}\text{o}_3$ or $y\text{o}_3\text{tm}$ or $y\text{o}_3\text{tb}$ or $y\text{o}_3\text{eu}$ or $gd\text{o}_3\text{eu}$ or $y\text{o}_3\text{tm}$ or $y\text{o}_3\text{tb}$ or $(\text{zn!}$ or zinc) with silicate) or $\text{al}_{12}\text{o}_{19}$ or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho silicate) or willite) with (mn or manganese) or (eu or europium) with (bam or $\text{bamg}\text{al}_{10}\text{o}_{17}$ or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or $\text{bamg}\text{al}_{10}\text{o}_{17}$ or ((ba or barium) with (mg or magnesium) with $\text{al}_{10}\text{o}_{17}$)) or $\text{zn}\text{mn}\text{sio}_4$ or $\text{zn}\text{sio}_4\text{mn}$ or $\text{mn}\text{al}_{12}\text{o}_{19}$ or $\text{al}_{12}\text{o}_{19}\text{mn}$ or $\text{baeu}\text{al}_{10}\text{o}_{17}$ or $\text{ba}\text{al}_{10}\text{o}_{17}\text{eu}$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or

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| \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) and (cdv or atomiz\$ or atomis\$ or aero\$1sol or aero sol or spray\$) | | | | | |
| (phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (cdv or atomiz\$ or atomis\$ or aero\$1sol or aero sol or spray\$) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |
| ((phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (cdv or atomiz\$ or atomis\$ or aero\$1sol or aero sol or spray\$) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$zio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$zio4 or zn\$zio4\$mn\$ or \$mn\$al12o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide)) or (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$zio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) or (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or

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| manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide))) | | | | | |
| (((phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (cdv or atomiz\$ or atomis\$ or aero\$1sol or aero sol or spray\$) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$io4 or zn\$io4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$io4 or zn\$io4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$io4 or zn\$io4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$

or gdSiO_3 or ySiO_3 or $\text{y}\text{SiO}_3\text{TB}$ or $(\text{ZnSiO}_4$ or $((\text{Zn!}$
 or zinc) with silicate) or $\text{Al}_{12}\text{O}_{19}$ or aluminate) with (mn or
 manganese) or $((\text{Zn!}$ or zinc) with orthosilicate) or
 SiO_2 with (mn or manganese) or (eu or europium) with
 $(\text{BaMgAl}_{10}\text{O}_{17}$ or $((\text{Ba}$ or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with $(\text{BaMgAl}_{10}\text{O}_{17}$ or $((\text{Ba}$ or barium) with (mg or
 magnesium) with $\text{Al}_{10}\text{O}_{17}$)) or ZnMnSiO_4 or ZnSiO_4Mn
 or $\text{MnAl}_{12}\text{O}_{19}$ or $\text{Al}_{12}\text{O}_{19}\text{Mn}$ or $\text{BaEuAl}_{10}\text{O}_{17}$ or
 $\text{BaAl}_{10}\text{O}_{17}\text{Eu}$) and (powder or particle or particulate) and
 (gaseous or gasified or vapor) and alkoxide) and
 (organometallic or alkoxide or ketone or dione or teos or
 siloxysilicate or (alkyl oxysilicate) or (20yl oxysilicate) or
 borate or methoxide or ethoxide or propoxide or
 butoxide or amyloxide or 20amyl oxide or pentyloxide)
)) or (phosphor or phosphorescence or luminescence or fluoresce
 or luminophore or fluorophore) and (gaseous or gasified or
 vapor) and (organometallic or alkoxide or ketone or dione
 or teos or siloxysilicate or (alkyl oxysilicate) or (20yl
 oxysilicate) or methoxide or ethoxide or propoxide or
 butoxide or amyloxide or 20amyl oxide or pentyloxide)
 not $((\text{Y}$ or yttrium or gd or gadolinium) with $(\text{BO}_3$ or oxide)
 with (eu or europium or tb or terbium or tm or thulium) or
 $(\text{YBO}_3$ or gdBO_3 or Y_2O_3 or gd_2O_3) with (eu or europium or tb or terbium or tm or thulium) or YEuBO_3 or gdEuBO_3 or
 YBO_3Eu or gdBO_3Eu or YEu_2O_3 or gdEu_2O_3 or
 YTM_2O_3 or YTB_2O_3 or $\text{Y}_2\text{O}_3\text{TM}$ or $\text{Y}_2\text{O}_3\text{TB}$ or $\text{Y}_2\text{O}_3\text{Eu}$
 or $\text{gd}_2\text{O}_3\text{Eu}$ or $\text{Y}_2\text{O}_3\text{TM}$ or $\text{Y}_2\text{O}_3\text{TB}$ or $(\text{ZnSiO}_4$ or $((\text{Zn!}$
 or zinc) with silicate) or $\text{Al}_{12}\text{O}_{19}$ or aluminate) with (mn or
 manganese) or $((\text{Zn!}$ or zinc) with orthosilicate) or
 SiO_2 with (mn or manganese) or (eu or europium) with
 $(\text{BaMgAl}_{10}\text{O}_{17}$ or $((\text{Ba}$ or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with $(\text{BaMgAl}_{10}\text{O}_{17}$ or $((\text{Ba}$ or barium) with (mg or
 magnesium) with $\text{Al}_{10}\text{O}_{17}$)) or ZnMnSiO_4 or ZnSiO_4Mn
 or $\text{MnAl}_{12}\text{O}_{19}$ or $\text{Al}_{12}\text{O}_{19}\text{Mn}$ or $\text{BaEuAl}_{10}\text{O}_{17}$ or
 $\text{BaAl}_{10}\text{O}_{17}\text{Eu}$) and (powder or particle or particulate) and
 (gaseous or gasified or vapor) and (organometallic or
 alkoxide or ketone or dione or teos or siloxysilicate or
 (alkyl oxysilicate) or (20yl oxysilicate) or borate or
 methoxide or ethoxide or propoxide or butoxide or
 amyloxide or 20amyl oxide or pentyloxide) or $((\text{Y}$ or
 yttrium or gd or gadolinium) with $(\text{BO}_3$ or oxide) with (eu or
 europium or tb or terbium or tm or thulium) or $(\text{YBO}_3$ or
 gdBO_3 or Y_2O_3 or gd_2O_3) with (eu or europium or tb or
 terbium or tm or thulium) or YEuBO_3 or gdEuBO_3 or
 YBO_3Eu or gdBO_3Eu or YEu_2O_3 or gdEu_2O_3 or
 YTM_2O_3 or YTB_2O_3 or $\text{Y}_2\text{O}_3\text{TM}$ or $\text{Y}_2\text{O}_3\text{TB}$ or $\text{Y}_2\text{O}_3\text{Eu}$
 or $\text{gd}_2\text{O}_3\text{Eu}$ or $\text{Y}_2\text{O}_3\text{TM}$ or $\text{Y}_2\text{O}_3\text{TB}$ or $(\text{ZnSiO}_4$ or $((\text{Zn!}$
 or zinc) with silicate) or $\text{Al}_{12}\text{O}_{19}$ or aluminate) with (mn or
 manganese) or $((\text{Zn!}$ or zinc) with orthosilicate) or

\$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$al10o17 or ((ba or barium) with (mg or
 magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$
 or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or
 ba\$al10o17\$eu\$) and (powder or particle or particulate) and
 (gaseous or gasifi\$ or vapor) and alkoxide or ((y or yttrium or
 gd or gadolinium) with (\$bo3 or oxide) with (eu or europium
 or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or
 y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm
 or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or
 gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3
 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or
 y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with
 silicate) or \$al12o19 or aluminate) with (mn or manganese)
 or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn
 or manganese) or (eu or europium) with (bam or
 ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium)
 with aluminate)) or (eu or europium) with (bam or
 ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium)
 with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12
 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$
) and (powder or particle or particulate) not (((y or yttrium or
 gd or gadolinium) with (\$bo3 or oxide) with (eu or europium
 or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or
 y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm
 or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or
 gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3
 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or
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 or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu
 or europium or tb or terbium or tm or thulium) or y\$eu\$bo3
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 or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or

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| (zn\$io4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$io4 or zn\$io4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide))) and (powder or particle or particulate) | | | | | |
| (((phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (cdv or atomiz\$ or atomis\$ or aero\$1sol or aero sol or spray\$) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$io4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$io4 or zn\$io4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$io4 or ((zn! or zinc) with silicate) or \$al12o19 or | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or y\$tm\$o3 or y\$tb\$o3 or y\$o3\$tm\$ or y\$o3\$tb\$ or y\$o3\$eu\$ or gd\$o3\$eu\$ or y\$o3\$tm\$ or y\$o3\$tb\$ or (zn\$sio4 or ((zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$o3 or gd\$o3) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$o3 or gd\$eu\$o3 or

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|---|------------------|-----|-----|--|------------|
| <p>or y\$3\$eu\$ or gd\$3\$eu\$ or y\$3\$tm\$ or y\$3\$tb\$ or (zn\$4\$ or ((zn! or zinc) with silicate) or \$12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$10o17 or ((ba or barium) with (mg or magnesium) with \$10o17)) or zn\$mn\$4\$ or zn\$4\$mn\$ or \$mn\$12 o19 or \$12o19\$mn\$ or ba\$eu\$10o17 or ba\$10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide))) and (powder or particle or particulate)) and (oxide or \$silicate or aluminate)</p> | | | | | |
| <p>((((phosphor or phosphoresc\$ or \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and (cdv or atomiz\$ or atomis\$ or aero\$1sol or aero sol or spray\$) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) not (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$3\$ or gd\$3\$) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$3\$ or gd\$eu\$3\$ or y\$tm\$3\$ or y\$tb\$3\$ or y\$3\$tm\$ or y\$3\$tb\$ or y\$3\$eu\$ or gd\$3\$eu\$ or y\$3\$tm\$ or y\$3\$tb\$ or (zn\$4\$ or ((zn! or zinc) with silicate) or \$12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$10o17 or ((ba or barium) with (mg or magnesium) with \$10o17)) or zn\$mn\$4\$ or zn\$4\$mn\$ or \$mn\$12 o19 or \$12o19\$mn\$ or ba\$eu\$10o17 or ba\$10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or europium or tb or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$3\$ or gd\$3\$) with (eu or europium or tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$3\$ or gd\$eu\$3\$ or y\$tm\$3\$ or y\$tb\$3\$ or y\$3\$tm\$ or y\$3\$tb\$</p> | EPAB, JPAB, DWPI | ADJ | YES | | 05-23-2008 |

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 \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or
 \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with
 (bo_3 or oxide) with (eu or europium or tb or terbium or tm
 or thulium) or ($y\text{bo}_3$ or gdbo_3 or $y\text{so}_3$ or gdso_3) with (eu

or europium or tb or terbium or tm or thulium) or y\$eu\$bo3
 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$bo3 or
 gd\$eu\$bo3 or y\$tm\$bo3 or y\$tb\$bo3 or y\$bo3\$tm\$ or y\$bo3\$tb\$
 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$bo3\$tm\$ or y\$bo3\$tb\$ or
 (zn\$zio4 or ((zn! or zinc) with silicate) or \$al12o19 or
 aluminate) with (mn or manganese) or (((zn! or zinc) with
 ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu
 or europium) with (bam or ba\$mg\$al10o17 or ((ba or
 barium) with (mg or magnesium) with aluminate)) or (eu or
 europium) with (bam or ba\$mg\$al10o17 or ((ba or barium)
 with (mg or magnesium) with \$al10o17)) or zn\$mn\$zio4 or
 zn\$zio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or
 ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle
 or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide
) and (organo\$metallic or alkoxide or \$ketone or \$dione or
 teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl
 oxysilicate) or borate or \$methoxide or \$ethoxide or
 \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or
 \$pent\$yloxide)) or (phosphor or phosphoresc\$ or
 \$luminesc\$ or fluoresc\$ or luminophor\$ or fluorophor\$) and
 (gaseous or gasifi\$ or vapor) and (organo\$metallic or
 alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or
 (\$alkyl oxysilicate) or (\$20yl oxysilicate) or \$methoxide or
 \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or
 \$20amyl oxide or \$pent\$yloxide) not (((y or yttrium or gd or
 gadolinium) with (\$bo3 or oxide) with (eu or europium or tb
 or terbium or tm or thulium) or (y\$bo3 or gd\$bo3 or y\$bo3 or
 gd\$bo3) with (eu or europium or tb or terbium or tm or
 thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or
 gd\$bo3\$eu\$ or y\$eu\$bo3 or gd\$eu\$bo3 or y\$tm\$bo3 or y\$tb\$bo3
 or y\$bo3\$tm\$ or y\$bo3\$tb\$ or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or
 y\$bo3\$tm\$ or y\$bo3\$tb\$ or (zn\$zio4 or ((zn! or zinc) with
 silicate) or \$al12o19 or aluminate) with (mn or manganese)
 or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn
 or manganese) or (eu or europium) with (bam or
 ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium)
 with aluminate)) or (eu or europium) with (bam or
 ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium)
 with \$al10o17)) or zn\$mn\$zio4 or zn\$zio4\$mn\$ or \$mn\$al12
 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$
) and (powder or particle or particulate) and (gaseous or
 gasifi\$ or vapor) and (organo\$metallic or alkoxide or \$ketone
 or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or
 (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or
 \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or
 \$pent\$yloxide) or ((y or yttrium or gd or gadolinium) with
 (\$bo3 or oxide) with (eu or europium or tb or terbium or tm
 or thulium) or (y\$bo3 or gd\$bo3 or y\$bo3 or gd\$bo3) with (eu
 or europium or tb or terbium or tm or thulium) or y\$eu\$bo3
 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$bo3 or
 gd\$eu\$bo3 or y\$tm\$bo3 or y\$tb\$bo3 or y\$bo3\$tm\$ or y\$bo3\$tb\$

or y\$3eu\$ or gd\$3eu\$ or y\$3tm\$ or y\$3tb\$ or
 (zn\$4 or ((zn! or zinc) with silicate) or \$12o19 or
 aluminate) with (mn or manganese) or (((zn! or zinc) with
 ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu
 or europium) with (bam or ba\$mg\$10o17 or ((ba or
 barium) with (mg or magnesium) with aluminate)) or (eu or
 europium) with (bam or ba\$mg\$10o17 or ((ba or barium)
 with (mg or magnesium) with \$10o17)) or zn\$mn\$4 or
 zn\$4\$mn\$ or \$mn\$12 o19 or \$12o19\$mn\$ or
 ba\$eu\$10o17 or ba\$10o17\$eu\$) and (powder or particle
 or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide
 or ((y or yttrium or gd or gadolinium) with (\$bo3 or oxide)
 with (eu or europium or tb or terbium or tm or thulium) or
 (y\$bo3 or gd\$bo3 or y\$3 or gd\$3) with (eu or europium or
 tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or
 y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$3 or gd\$eu\$3 or
 y\$tm\$3 or y\$tb\$3 or y\$3\$tm\$ or y\$3\$tb\$ or y\$3\$eu\$
 or gd\$3\$eu\$ or y\$3\$tm\$ or y\$3\$tb\$ or (zn\$4 or ((zn!
 or zinc) with silicate) or \$12o19 or aluminate) with (mn or
 manganese) or (((zn! or zinc) with ortho\$1silicate) or
 \$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$10o17 or ((ba or barium) with (mg or
 magnesium) with \$10o17)) or zn\$mn\$4 or zn\$4\$mn\$
 or \$mn\$12 o19 or \$12o19\$mn\$ or ba\$eu\$10o17 or
 ba\$10o17\$eu\$) and (powder or particle or particulate) not
 (((y or yttrium or gd or gadolinium) with (\$bo3 or oxide)
 with (eu or europium or tb or terbium or tm or thulium) or
 (y\$bo3 or gd\$bo3 or y\$3 or gd\$3) with (eu or europium or
 tb or terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or
 y\$bo3\$eu\$ or gd\$bo3\$eu\$ or y\$eu\$3 or gd\$eu\$3 or
 y\$tm\$3 or y\$tb\$3 or y\$3\$tm\$ or y\$3\$tb\$ or y\$3\$eu\$
 or gd\$3\$eu\$ or y\$3\$tm\$ or y\$3\$tb\$ or (zn\$4 or ((zn!
 or zinc) with silicate) or \$12o19 or aluminate) with (mn or
 manganese) or (((zn! or zinc) with ortho\$1silicate) or
 \$will\$ite) with (mn or manganese) or (eu or europium) with
 (bam or ba\$mg\$10o17 or ((ba or barium) with (mg or
 magnesium) with aluminate)) or (eu or europium) with (bam
 or ba\$mg\$10o17 or ((ba or barium) with (mg or
 magnesium) with \$10o17)) or zn\$mn\$4 or zn\$4\$mn\$
 or \$mn\$12 o19 or \$12o19\$mn\$ or ba\$eu\$10o17 or
 ba\$10o17\$eu\$) and (powder or particle or particulate) and
 (gaseous or gasifi\$ or vapor) and (organo\$metallic or
 alkxoide or \$ketone or \$dione or teos or \$yloxysilicate or
 (\$alkyl oxyasilicate) or (\$20yl oxyasilicate) or borate or
 \$methoxide or \$ethoxide or \$propoxide or \$butoxide or
 \$amyloxide or \$20amyl oxide or \$pent\$yloxide) or ((y or
 yttrium or gd or gadolinium) with (\$bo3 or oxide) with (eu or
 europium or tb or terbium or tm or thulium) or (y\$bo3 or
 gd\$bo3 or y\$3 or gd\$3) with (eu or europium or tb or

| | | | | | |
|---|--|--|--|--|--|
| terbium or tm or thulium) or y\$eu\$bo3 or gd\$eu\$bo3 or y\$bo3\$eu\$ or gd\$bo3\$eu or y\$eu\$so3 or gd\$eu\$so3 or y\$tm\$so3 or y\$tb\$so3 or y\$so3\$tm\$ or y\$so3\$tb\$ or y\$so3\$eu\$ or gd\$so3\$eu\$ or y\$so3\$tm\$ or y\$so3\$tb\$ or (zn! or zinc) with silicate) or \$al12o19 or aluminate) with (mn or manganese) or (((zn! or zinc) with ortho\$1silicate) or \$will\$ite) with (mn or manganese) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with aluminate)) or (eu or europium) with (bam or ba\$mg\$al10o17 or ((ba or barium) with (mg or magnesium) with \$al10o17)) or zn\$mn\$sio4 or zn\$sio4\$mn\$ or \$mn\$al12 o19 or \$al12o19\$mn\$ or ba\$eu\$al10o17 or ba\$al10o17\$eu\$) and (powder or particle or particulate) and (gaseous or gasifi\$ or vapor) and alkoxide) and (organo\$metallic or alkoxide or \$ketone or \$dione or teos or \$yloxysilicate or (\$alkyl oxysilicate) or (\$20yl oxysilicate) or borate or \$methoxide or \$ethoxide or \$propoxide or \$butoxide or \$amyloxide or \$20amyl oxide or \$pent\$yloxide))) and (powder or particle or particulate) and (oxide or \$silicate or aluminate)) | | | | | |
|---|--|--|--|--|--|